







FIG. 1D

	301					350
Human	PWTWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR	
Ahmad	PWTWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR	
Cichon	PWTWPACPP	GLVHTLGNVW	AGPGDGNLGY	QLGPPATPRC	PSPEPPVTQR	
Rat	PRTWPSCPP	GLVHTLGNVW	AGPGSNSFGY	QLGPPVTPRC	PSPGPPTPPG	
Mouse	PRAPWPSCPP	GLVHSLGNIW	AGPGSNSLGY	QLGPPATPRC	PSPGPPTPPG	
	351					400
		*				
Human	GCCSSYPPTK	GGDLGPCGKC	QEGLEGASG	ASEPSEEVNK	ASGPRACPPS	
Ahmad	GCCSSYPPTK	GGDLGPCGKC	QEGLEGASG	ASEPSEEVNK	ASGPRACPPS	
Cichon	GCCSSYPPTK	GGDLGPCGKC	QEGLEGASG	ASEPSEEVNK	ASGPRACPPS	
Rat	GCCSSHLPAR	EGDPGPCRKC	QDSPEGSSSG	PGESSEERNK	A.GSRASPPS	
Mouse	GCCSSHLPAR	EGDLGPCRKC	QDSPEGSSSG	PGESSEERNK	A.DSRACPPS	

FIG. 1E

	401					450
Human	HHTKLKKTWL	TRHSEQFECF	RGCPVEEERP	VARLRALKRA	GSPEVQGAMG	
Ahmad	HHTKLKKTWL	TRHSEQFECF	RGCPVEEERP	VARLRALKRA	GSPEVQGAMG	
Cichon	HHTKLKKTWL	TRHSEQFECF	RGCPVEEERP	VARLRALKRA	GSPEVQGAMG	
Rat	HHTKLKKTWL	TRHSEQFECF	GGCPGKGESP	ATGLRALKRA	GSPEVQGA.R	
Mouse	HHTKLKKTWL	TRHSEQFECF	GGCSGKEESS	ATGLRALKRA	GSPEVQGASR	
	451					500
			*			
Human	SPAPKRPPDP	FPGTAEQGAG	GWQEVDRDTSI	GNKDVDSGQH	DEQKGPQDGQ	
Ahmad	SPAPKRPPDP	FPGTAEQGAG	GLQEVDRDTSI	GNKDVDSGQH	DEQKGPQDGQ	
Cichon	SPAPKRPPDP	FPGTAEQGAG	GWQEVDRDTSI	GNKDVDSGQH	DEQKGPQDGQ	
Rat	GPAPKRPSHT	FPGTGRQGAR	AWQETPETST	GSKA.EAQQQ	EEQRCGRDGR	
Mouse	GPAPKRPSHP	FPGTGRQGAR	AWQETPETII	GSKA.EAEQQ	EEQRCGRDGR	

FIG. 1F

	501				550
			*		
Human	ASLQDPGLQD	IPCLLLPAKL	AQCQSCAQAA	GEGGGHACHS	QQVRRSPLGG
Ahmad	ASLQDPGLQD	IPCLALPAKL	AQCQSCAQAA	GEGGGHACHS	QQVRRSPLGG
Cichon	ASLQDPGLQD	IPCLALPAKL	AQCQSCAQAA	GEGGGHACHS	QQVRRSPLGG
Rat	IRLRESRLVD	TSCQHHLGV	TQCPSCVQAA	GEVEILTSHS	QKSHKLPLEE
Mouse	IRLQESRLVD	TSCQHHLGV	TQCQSCVQAA	GEVGVLTGHS	QKSRRSPLEE
	551				600
					*
Human	ELQQEEDTAT	NSSSEEGPGS	GPDSRLSTGL	AKHLLSGLGD	RLCRLRRER
Ahmad	ELQQEEDTAT	NSSSEEGPGS	GPDSRLSTGL	AKHLLSGLGD	RLCRLRRER
Cichon	ELQQEEDTAT	NSSSEEGPGS	GPDSRLSTGL	AKHLLSGLGD	RLCRLRRER
Rat	KPL.EEDSCA	.TSEEGGGS.	SPEASINKGL	AKHLLSGLGD	RLCRLRRER
Mouse	KQLEEDSSA	.TSEEGGGS.	GPEASINKGL	AKHLLSGLGD	RLCRLRRER

FIG. 1G

	601				650
Human	EALAWAQREG	*	QGPAVTGDSP	GIPRCCSRCH	HGLFNTHWRC
Ahmad	EALAWAQREG		QGPAVTEDSP	GIPRCCSRCH	HGLFNTHWRC
Cichon	EALAWAQREG		QGPAVTEDSP	GIPRCCSRCH	HGLFNTHWRC
Rat	EALAWAQREG		QGPAMTEDSP	GIPHCCSRCH	HGLFNTHWRC
Mouse	EALAWAQREG		QGPAMTEDSP	GIPHCCSRCH	HGLFNTHWRC
	651				700
Human	CGRVAGTGRA		REKAGFQEQS	AEECTQEAGH	AACSLMLTQF
Ahmad	CGRVAGTGRA		REKAGFQEQS	AEECTQEAGH	AACSLMLTQF
Cichon	CGRVAGTGRA		REKAGFQEQS	AEECTQEAGH	AACSLMLTQF
Rat	CGRIAGAGKN		REKTGSREQR	TDDCAQEAGH	AACSLILTQF
Mouse	CGRIAGAGKN		REKTGSQEQH	TDDCAQEAGH	AACSLILTQF
					VSSQALAEELS
					VSSQALAEELS
					VSSQALAEELS
					VSSQALAEELS
					VSSQALAEELS

FIG. 1H

	701				750
Human	TAMHQVWVKF	DIRGHCPQA	DARVWAPGDA	GQKESTQKT	PPTPQPSCNG
Ahmad	TAMHQVWVKF	DIRGHCPQA	DARVWAPGDA	GQKESTQKT	PPTPQPSCNG
Cichon	TAMHQVWVKF	DIRGHCPQA	DARVWAPGDA	GQKESTQKT	PPTPQPSCNG
Rat	TVMHQVWAKF	DIRGHCFQV	DARVWAPGDG	GQKEPTEKT	PPAPQLSCNG
Mouse	TVMHQVWAKF	DIRGHCFQV	DARVWAPGDG	GQKEPTEKT	PPTPQPSCNG
	751				800
					*
Human	DTHRTKSIKE	ETPDSAETPA	EDRAGRPLP	CPSLCELLAS	TAVKLCLGHE
Ahmad	DTHRTKSIKE	ETPDSAETPA	EDRAGRPLP	CPSLCELLAS	TAVKLCLGHD
Cichon	DTHRTKSIKE	ETPDSAETPA	EDRAGRPLP	CPSLCELLAS	TAVKLCLGHE
Rat	DSNRTKDIKE	ETPDSTESPA	EDRAGRSPLP	CPSLCELLAS	TAVKLCLGHE
Mouse	DSNRTKDIKE	ETPDSTESPA	EDGAGRSPLP	CPSLCELLAS	TAVKLCLGHD



FIG. 1I

	801				850
Human	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGPGL
Ahmad	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGPGL
Cichon	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGPGL
Rat	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGSGL
Mouse	RIHMAFAPVT	PALPSDDDRIT	NILDSIIAQV	VERKIQEKAL	GPGLRAGSGL
	851				900
Human	RKGLGLPLSP	VRPRLPPPGA	LLWLQEPQPC	PRRGFHLFQE	HWRQGQPVLV
Ahmad	RKGLGLPLSP	VRPRLPPPGA	LLWLQEPQPC	PRRGFHLFQE	HWRQGQPVLV
Cichon	RKGLGLPLSP	VRPRLPPPGA	LLWLQEPQPC	PRRGFHLFQE	HWRQGQPVLV
Rat	RKGLSLPLSP	VRTQLSPPGA	LLWLQEP..	PKHGFRLFQE	HWRQGQPVLV
Mouse	RKGLSLPLSP	VRTQLSPPGA	LLWLQEP..	PKHGFHLFQE	HWRQGQPVLV

FIG. 1J

	901				950
			*		
Human	SGIQRTLQGN	LWGTEALGAL	GGQVQALSPL	GPPQPSSLGS	TTFWEGFSWP
Ahmad	SGIQRTLQGN	LWGTEALGAL	GGQVQALSPL	APPQPSSLGS	TTFWEGFSWP
Cichon	SGIQRTLQGN	LWGTEALGAL	GGQVQALSPL	GPPQPSSLGS	TTFWEGFSWP
Rat	SGIQKTLRLS	LWGMEALGTL	GGQVQTLTAL	GPPQPSSLGS	TAFWKGFSSHP
Mouse	SGIQKTLRLS	LWGMEALGTL	GGQVQTLTAL	GPPQPSSLGS	TAFWKGFSSHP
	951				1000
			*		
Human	ELRPKSDEGS	VLLLHRAFGD	EDTSRVENLA	ASLPLPEYCA	LHGKLNLSY
Ahmad	ELRPKSDEGS	VLLLHRAFGD	EDTSRVENLA	ASLPLPEYCA	LHGKLNLSY
Cichon	ELRPKSDEGS	VLLLHRAFGD	EDTSRVENLA	ASLPLPEYCA	LHGKLNLSY
Rat	EAPPKLDEGS	VLLLHRAFGD	KDES RVENLA	SSLPLPEYCA	HQGKLNLSY
Mouse	ETRPKLDEGS	VLLLHRTLGD	KDASRVQNL	SSLPLPEYCA	HQGKLNLSY

FIG. 1K

Human	1001	LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	1050
Ahmad		LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	*
Cichon		LPPGLALRPL	EPQLWAAAYGV	SPHRGHLGTK	NLCVEVADLV	SILVHADTPL
Rat		LPLGLTLHPL	EPQLWAAAYGV	NSHRGHLGTK	NLCVEVSDLI	SILVHADTPL
Mouse		LPLGLTLHPL	EPQLWAAAYGV	NSHRGHLGTK	NLCVEVSDLI	SILVHAEAQL

Human	1051	PAWHRAQKDF	LSGLDGEGWL	SPGSQVSTVW	HVFRAQDAQR	1100
Ahmad		PAWHEAQKDF	LSGLDGEGWL	SPGSQVSTVW	HVFRAQDAQR	
Cichon	*	PAWHRAQKDF	LSGLDGEGWL	SPGSQVSTVW	HVFRAQDAQR	IRRFLQMVCP
Rat		PPWYRAQKDF	LSGLDGEGWL	SPGSQTSTVW	HVFRAQDAQR	IRRFLQMVCP
Mouse		PPWYRAQKDF	LSGLDGEGWL	SPGSQTSTVW	HVFRAQDAQR	IRRFLQMVCP

FIG. 1L

	1101					1150
Human	AGAGALEPGA	PGSCYLDAGL	RRRLREENGV	SCWTLQAPG	EAVLVPAGAP	
Ahmad	AGAGALEPGA	PGSCYLDAGL	RRRLREENGV	SCWTLQAPG	EAVLVPAGAP	
Cichon	AGAGALEPGA	PGSCYLDAGL	RRRLREENGV	SCWTLQAPG	EAVLVPAGAP	
Rat	AGAGTLEPGA	PGSCYLDAGL	RRRLREENGV	SCWTLQAPG	EAVLVPAGAP	
Mouse	AGAGTLEPGA	PGSCYLDAGL	RRRLREENGV	SCWTLQAPG	EAVLVPAGAP	
	1151					1200
				*		
Human	HQVQGLVSTV	SVTQHFLSPE	TSALSAQLCH	QGPSLPPDCH	LLYAQMWDWAV	
Ahmad	HQVQGLVSTV	SVTQHFLSPE	TSALSAQLCH	QGPSLPPDCH	LLYAQMWDWAV	
Cichon	HQVQGLVSTV	SVTQHFLSPE	TSALSAQLCH	QGPSLPPDCH	LLYAQMWDWAV	
Rat	HQVQGLVSTI	SVTQHFLSPE	TSALSAQLCH	QGPSLPPDHR	MLYAQMWDRAW	
Mouse	HQVQGLVSTI	SVTQHFLSPE	TSALSAQLYH	QGPSLPPDHR	MLYAQMWDRAW	

